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An Essay
on
Dentition,
by
Edward M. Beckett,
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South Carolina.

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In complying with that regulation of the Medical department of the University of Pennsylvania, which requires the candidate for a degree in Medicine, to submit to the examination of the Professors an essay upon some Medical Subject. Dentition is selected in this humble attempt, to discharge that duty. The consideration of this process is of the highest importance, since in its progress we frequently find connected with it, some of the most insidious, and often fatal complaints, to which the period of infancy is liable. The limits to which an attempt of this ^{kind} must necessarily be confined, forbids me to enter into all the detail that might be embraced in a treatise on Dentition; consequently, the views taken of it will be principally confined to such steps, as are adopt-

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id to prevent constitutional complaints. However impressed with the importance of the subject, it would be presumption in thus selecting it for the present purpose, to enter a
tain the hope of being able to aavance any
thing new & want of experience forbids an idea
of the kind. Sensible, therefore, of the dis-
advantage under which the essay must
be commenced, it is to be hoped that ^{it} will
be admissible, if reliance be placed upon the
experience of those who have made the pro-
cess of dentition the object of their researches.
But without further preliminary it may
be proper to proceed by first noticing the for-
mation of the teeth in the fatus, and their pro-
gressive development before they protrude
through the gums, and the order which na-
ture pursued in accomplishing this process.
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the fates, the Alveolar processes, which are formed at an early period, are observed to be only shallow grooves having a number of depression or partitions, which form the sockets for the reception of their roots. In these depressions the rudiments of the teeth, both of the first and second sets, are formed, consisting of soft pulpy substance, enveloped in separate vascular membranes, called capsules. As these advance in growth we find the alveolar processes progressively increasing; hence it may be observed, that although they are attached to the jawbones, they may be considered as appendages to the teeth, making their appearance with them, assuming their shape, and disappearing as soon as they are removed or destroyed by decay. The first signs of ossification may be discovered on the surface of the pulp at several points, according

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to the different kind of teeth to be formed.
Thus the Incisives and Canines are observed
to commence at one point: the bicuspides at
two: and the molars at four or five points.
As ossification gradually progresses we find
the pulp in like manner diminishing, until
finally the whole is covered with bone, with
the exception of the base, from whence pro-
ceeds in the same gradual manner by an
elongation, the fang or root of the tooth the
body being now formed. The enamel in a
peculiar manner is secreted, and continues
to increase until the whole surface is covered.
The deposition of this substance, so well
calculated to protect the teeth from com-
mon injuries, cannot be easily accounted
for, but with some degree of probability,
it may be said to be secreted by the mem-
branous capsule investing them. The enamel

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continues to increase in thickness, and particularly at the points from whence it first commences, until just before the induction of the teeth through the gums, at which time, the secretion ceases and assumes the degree of hardness which is observed on the appearance of the teeth above the gums.

The composition of this substance is similar to that of bone, but is harder than bone, and consequently not so easily destroyed. This degree of hardness, may be owing to the absence of that cartilaginous or membranous structure so easily demonstrable in bone. While the secretion of enamel is going on, an elongation of the under surface of the body according to a previous observation takes place, and the formation and ossification of the root and neck of the tooth is finally completed. At the ossification of the body of the

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Tooth proceed from several sources in like manner
and last the formation for the upper
of the fangs commence at different periods
according to the number of teeth to make up.

Having considered the formation of the teeth
in the whale it follows next in order to men-
tion the suspicion on which Mrs. Attwells
through the scenes. However unimportant
this part of the subject may appear, it cer-
tainly claims the attention of the Physician
in order to qualify him to give that satis-
faction so often solicited by the anxious
parent while her tender offspring is expos-
ed to this frequently dangerous process.
In vain would he exert to meet with
that relaxed confidence, which must be
the foundation of his future practice, in
the discharge of his professional duties,
were he unable to relate the circumstances

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of the parent, by having a perfect knowledge of the order of this process, and in consequence of which he may be enabled to resort to the operation of cutting the gums, when called for, to more advantage, by applying his lancet to the very spot where the irritator, the cause of so much uneasiness, may exist, and thereby relieve the tender patient.

The infant teeth, called desiderous are twelve in number, and they differ in several respects from the adult teeth. Of these there are five on each side of each jaw, viz two incisors, one caninidatus, and two molares making ten in each jaw. They protrude through the gums in the following order in pairs appearing not precisely at the same time, but very near to each other. Between the fourth and eighth months after birth, the upper incisors usually make their ap-

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pearance followed in the course of a month by those of the upper jaw immediately opposite to them. The two lateral incisors of the lower jaw precede next in succession, the upper ones following in like manner as those of the central incisors. About the twelfth or fourteenth month, the first or anterior molars make their appearance, succeeded by the upper ones in a short time. Next in order we have the canines making their appearance, between the sixteenth and twentieth month; and finally, the posterior molars are cut. Thus about the age of two years and a half, the child is in full possession of all the first set of teeth. These remain until between the sixth and seventh years when, having completed their temporary purposes, they loosen and drop out, commencing with the central incisors. At this time

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in the posterior or back part of the jaw, the first permanent molars are observed to make their appearance having had their residence formed during fetal life. The second now show themselves about the time^{the} cuspidi and second incisives are observed; and last of all, after a long interval, the last molars or dentes caninae protrude. At this particular period, the whole number of teeth enclosed in both jaw bones are forty eight, consisting of the twenty deciduous, together with the twenty eight permanent teeth, the latter being in a state of progression during the temporary, versus a stasis in the former. This is the order in which the teeth usually make their appearance but it must be recollect'd, there are many deviations from it such as the teeth being delayed in showing themselves at the usual time, those in the upper jaw appearing first &c.

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Having thus, in a cursory manner described the formation of the teeth in the fetus, and their protrusion through the gums during the process of dentition, it will be unnecessary to make any remarks upon the adult teeth, by which they are followed, as they, cannot be said to be immediately connected with the subject under consideration.

The consideration of the numerous diseases peculiar to early infancy, many of which are provoked or brought on by teething has of late years occupied the attention of some of our most enlightened Medical authorities. The accuracy with which they have described them has enabled the Physician to conduct his practice with a less degree of embarrassment and with the result of their experience to arrive at a more successful termination. The process of dentition with the

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many complaints a attendant on it, does not appear to have escaped their investigation. Previous to the attention, which of late has been so successfully paid to the diseases of children, the subject of Dentition terminating so frequently without scarcely any perceptible invasion of the child was viewed as, coming under the classification of Diseases. As to the propriety or impropriety of this objection, we do not feel competent to decide: Admitting that it may be excluded from such a classification the medical attendant, however, frequently finds it connected with some of the most formidable complaints he has to contend with during the period of Infancy - but these it may be alleged are brought into action by teething, induced by a high degree of excitability of the nervous system. We find the

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imentary canal in the manner most deeply involved, and thereby the disarrangement is both instances inducing not only disease, but in many instances, disease of an alarming and fatal character; strikingly severe in its progress and complicated in its symptoms. Hence it follows, that too much care cannot be paid to ^{the} first appearance of indisposition, during a period so painful and critical. We do not mean to infer by these remarks however, that the process is never completed without pain or irritation or at least in a slight degree. This would be denying the fact, for in many instances the effects are so mild, that they are scarcely taken notice of by the parent, or those who may have the management of them—but, as observed before, there is disease; and that too in a most formidable and alarming degree. But, however true this may be we too

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often find the tender sufferer consigned to the immediate care of those who by their ignorant pretensions, and the utmost degree of presumption, without the most distant claim to that medical instruction, except in their own estimation, calculated to afford ^{useful} oblique themselves upon the over anxious parent to the exclusion of those ^{more} assistance might be attended with the happiest effects. To prove the propriety of this remark we need but go to the nursery of those, who still place their reliance upon the skill of such pretenders; there we may behold the suffering infant, compelled to undergo a course of management the least calculated in its result to conduct the process to a happy issue, without inducing constitutional symptoms. Such is the confidence of the misguided parent, in such a course of management, that one temporizing plan leadson

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to another, until disease of a dangerous character takes hold without the least suspicion being entertained of its appearance. Within the last few years, however, much of the practice in the cases of children has been confided to the care of well informed Physicians, the result of whose experience, as has been already remarked, has been made known at large.

Dr. Underwood, treating of the subject of dentition, observes, that although it may not be considered a disease, yet it induces very many diseases in children of different habits of body, and particularly the healthy and strong. The weak cut their teeth without much difficulty, tho' late; while the robust fall victims to the attendant complaints, unless the teeth are afforded an easy passage through the gums. With

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children of such habits it is reasonable to conclude, that fever is of frequent occurrence. The fever attending dentition appears to arise from the cheek given to secretion. In support of this we have the assertion of Dr. Astley Cooper who in speaks of irritative fever to prove that it arises from the cheek given to secretion, advances what takes place in children during dentition "They are sometimes put to bed quite well, yet, in the morning an arm, leg or both legs are paralyzed from the irritation of a tooth. the secretion from the intestines stops, fever arises and produces a hot and dry skin". Convulsions too are not unfrequently the result of this critical period. At this particular juncture, the system being disposed to take on an inflammatory action the strong and robust, must, in a greater or less degree be exposed to acute

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fever or convulsions. Besides these, however, there are other circumstances which are said by Dr. Hunter to affect the process of dentition. The particular season of the year appears to have some influence; thus in the winter the teeth are cut with more ease than in summers. The state of the habit appears also to affect the process, since the teeth are observed to penetrate more readily with the bone than the fat; but those children, who are loose in the bowels, are said to cut them more readily than others. With respect to the lean it may be observed that they too, when this particular state of the body exists in too great a degree, are exposed to danger as well as the robust, who, it was remarked, cut them with more difficulty, the one being exposed to acute fever or convulsions, while the other, from a state of de-

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bility, are exposed to slow hectic and gradual decay. The difficulty of dentition appears to consist, also, in the manner in which the teeth are cut. If there is any deviation from the order which has been described such as appearing first in the upper jaw; or being cut at a distance from each other, and thereby not contiguous to each other, there must exist difficulty and pain; since, according to Dr. Underwood, the contiguous tooth is aided in its protrusion by the one, a cresty cut pressing against the gum and nervous membrane, and thereby promoting absorption by its stimulating effects. The circumstances under which the first are cut, afford us some signs of judging of the manner in which the succeeding ones will be produced, according as they are favourable or otherwise. But this position cannot hold good in every

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instance, particularly in the cutting of the double teeth since some irregularity may take place with respect to the posse, one projecting above the others producing an irritation in the nervous membranes.

In an early part of this essay, it was observed, that many children pass through this important crisis, without much indisposition attending the process. A greater or less degree of irritation, however, must be the consequence; and, hence certain symptoms must ensue, modified in their violence according to the extent of such irritation. The process is observed to be attended with considerable irritation of the mouth, producing great heat. The child drools profusely, in consequence of an increased quantity of salivæ which appears to moderate the inflammation and irritation. The gums being swollen and attended by an itch

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of a whiter hue. The cheeks are in most in-
stances, circumscribed by a redness of greater
or less extent. The eyes become watery, hav-
ing the lids somewhat inflamed and swollen.
The stomach and bowels become very irritable,
and hence, an imperfect performance of their
action ensues, and occasionally a suspension.
Sometimes eruptions appear in various parts
of the skin, and particularly the face and
scalp. A looseness of the bowels ensues
with severe gripings and the stools often bear-
ing a green, pale, or leaden blue colour, are
often mixed with ^{much} mucous, or are thick. The
child becomes watchful or peevish, and
frequently thrusts its fingers into its mouth,
or endeavours to mitigate the pain, by bit-
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to reach. During sleep, it frequently and suddenly starts and sometimes convulsions in particular parts of the body appear to take place. The urine; also, undergoes various changes; sometimes being voided quite pale, but most generally high coloured; and depositing at times a thick white, and at other times a red sediment. These are the symptoms which usually attend easy dentition, but, in children of irritable habits, symptoms of a more alarming and dangerous character, make their appearance; and are often such as the experienced only can trace to their ^{true} cause, such as fever, difficulty of breathing spasmotic cough, &c. & so do spasmodic fits and convulsions. Besides these symptoms, a swelling of the tops of the feet and hands, is mentioned by Dr. Underwood, which, he observes, is not of much importance, as it

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generally disappears on the cutting of those
births, which raised the affection. The same
author mentions, that in a few instances a
transient paralysis of the arms and legs take
place; but Sir Astley Cooper in noticing
the same circumstance, remarks, that it
sometimes continues with little alteration
through life.

Some of the symptoms mentioned
usually attending easy delivery; such as the
flow of salvia, and Secretaneous Diarrhoea, are
evidently intended by nature, to remove a very
important part in her efforts to avoid consti-
tutional symptoms; the first, by its profuse
discharge, reducing the vessels of the part and
other the system in general. In order to frustrate
these natural means, the whale should be lim-
ited in its food, if accustomed to animal sec-
retion of any kind, in order to stimulate the sys-

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time it should be withheld, and to continue, pain-
lessly to the nourishment afforded by the mae-
thir, or if it be ~~weak~~, to articles of light diet.
In conjunction with this plan, it will be im-
perative to pay particular attention to the selection
of respects confinement. Because the indica-
tive symptoms of a "stroke" so often occur
after by the parent, with the most degree
of anxiety, have made their appearance, it is
not to be presumed that the soon infant
should be confined to a nursery. On the con-
trary, every opportunity, consistent with propri-
ety, of indulging the little patient in the
open air, should be embraced. Exercise should
be properly attended to, particularly when there
is any marked easiness or irritability; and
this should be of such a kind as will be
distracting to the mind of the infant, as well
as affording sufficient exercise to the body.

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this is as necessary in this case, together with a modification of a proper temperature, and strict attention to the proper degree of clothing us such a state of the atmosphere attention to cleanliness, diet &c &c as is conducive to support the system of those who are feeble.

These are two states of the constitution which have been remarked before, as peculiarly liable to the susceptibility, or liability to inflammation during the process of recovery. In a nervous & irritable course of treatment the best method of clothing may be so conducted as to avoid the exciting of nervous affections together with over power in the one hand and supporting debility, so as not to induce either an aggravation or decay on the other. The advantage resulting from a spontaneous discharge of the bowels has already been noticed, with attention therefore to the state of the nervous

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feast, shall it be curative; &c. It is no
use of too much in these operations, strength
is abissible in order to stand against those
severe constitutional affection's capable
of allaying this state of the bowels. To obviate
this, immediate recourse must be had to
milder purgatives. Those which are most
adapted to this purpose, are Castor oil and
Mannesia. The dose of either must be con-
sidering to the age of the child. Mannesia
may be given in the quantity of two or
three Teaspoonsful in a child of six months
to two years of age; to children of the same
age Castor oil may be administered in the
dose of a Teaspoon to a Table-spoon full.
Should the desired effect not be produced
by the use of these articles, and evident
signs of severe symptoms show themselves,
it will be necessary to resort to more efficient

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means as Calomel and Salap, or the first mentioned articles may be repeated every hour or two, until the desired effect is produced. As concerning a part of the diet in this case, which requires strict attention, we must however, as much spoken of it is not in Dr. James's edition of Burns. It is probable mush made of Wheat in the coarse stalk, would answer the same purpose. Considering then the benefit arising from a loose state of the bowels it would be advisable in the case of a spontaneous purging, to encourage rather than check it, particularly in children of a robust habit, for reasons already assigned, unless it be excessive, or attended with pain, and loss of appetite. It is conceivable, however, to what an extent it may proceed at this particular period, without doing any material injury while, at any other time the

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most serious consequences would result. But, if the discharge should be protected with a layer of viscous seed, & from inflammation attended with mortification & general debility, with the other symptoms denoting the severer form of Carrion of Teething, such as pale & dejected countenance, the eyes dull & heavy, the features sunken, feeble, feverish symptoms, nausea and vomiting &c. Then most care attention be directed to its arrest, but not in too hasty a manner. As the object of the essay is not to ^{intend} launch upon any of the complaints connected with action, by the process of deduction, but merely to point out some of the means by which the author conceives they may be obviated or lessened, the subject will be pursued no further. The custom of furnishing children with gumshirts & small un. other hard substances, as means

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of furthering the practice of the like, has
been condemned. The principle objection is,
seems, to this practice is, that it harbours
the disease; thereby preventing absorption.
As to the propriety of this abjection, the
want of experience forbids a word to be said
upon the subject; recourse must be had
to the authors who have noticed this point,
for its reputation. Dr. Hunter considers
them as agents in the behalf of nature; and
in this respect he certainly appears to have
the argument in his favour; for what is
more common than to observe children dur-
ing teething to thrust their fingers, or any
hard substance, into their mouth. Is not
this practice instituted by nature; and does
it not appear to afford them comfort, and relieve
pain in a great measure; at least while the
effects of the pressure remain? &c. &c.

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into our observation we have seen. However it appears that this institution of nature acts as a stimulus to absorption, and causes a nourishment to the teeth, and consequently gives their protomies. The injurious effects of these articles may arise from their tendency to burn the gums, and induce a greater degree of inflammation by which absorption may be promoted. These remarks however, are not intended to favor the practice, for since the application of coral &c. may injure the gums when used for this purpose, and since the power may be assisted by pressure it would seem advisable to make use of such substances as have a broader surface, than the articles just noticed can possibly possess. To young amongst the black population of the South it is quite customary to have a piece of silver suspended to the wrists of their children.

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of any hard substance, of whatever shape, best
calculated to its bicuspid carious tooth,
provided it be furnished with flat surfaces
and of such thickness as not to injure the gum.
But all ^{other} measures to lessen local irrita-
tion, arising from the protrusion of the
teeth, and to avoid all sympathetic af-
fection, being protracted, may fail. When
this is the case, and every symptom of decays
most increased, the gums should be care-
fully examined, and if their colour or swollen
state mark the cause, they should be im-
mediately cut. If the performance of the op-
eration of cutting the gums, it is presumed

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that it would be advisable for the person employed to have an understanding of the order in which the teeth have been described, as marking their appearance. From his acquaintance with this order, the true point of irritation will easily be discovered, and the lancet being applied to this particular spot, will save the child much unnecessary pain. The operation may be resorted to at any time during the process of dentition. At the commencement of the shooting of the teeth, symptoms of an alarming character may present themselves; and although they may not be very near the surface, decided benefit results from the division of the stellate membrane, which, "the source from whence the irritation proceeds. It may be proper, however,

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in this case to mention that the protraction
of the teeth will not take place so suscep-
tibly, altho' the division of the membrane
may be free, as when the edges of the teeth
are visible at the time of the operation.
The incision in this case may heal; and
hence has arisen one of the objections to the
operation, supposing that scars increase
the difficulty of protraction. In opposi-
tion to this opinion, we have the experience
of Mr. John Hunter, who states that it
frequently happens, particularly when the
operation of cutting the gum is per-
formed early in the commencement of the dis-
ease, that the gum will reunite over
the teeth, in which case the same symp-
toms will be produced, and they must be
relieved by the same method. I have per-
formed the operation now for about ten

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times upon the same tooth, when the disease has recurred so often, in conjunction with removal of the symptoms." It may also be remarked, that the ~~inflammation~~ scars produced by the operation cannot be an objection, when it is recollect'd that newly formed parts are always more easy to yield, than when in the original state. In all cases where the operation is had recourse to the lancet should be carried down to the teeth, so that they may be felt, for on the fibres of the investing membrane depends the success; since, in consequence of its high degree of sensibility, when thus put upon the skin, arises fever, convulsions &c. caries of the lower set of teeth has been apprehended from the use of the lancet in performing the operation;

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relating to them in consequence of injury
or dislancet by the first set. But it
must be recollect'd, that they ^{are} ~~now~~
or rather protruded with the enamel
solely protecting them from any violence
which could occur from the hands.
And again if the first set were not so
erected, and thereby liable to receive an
injury from the contact touching them,
the second or set below them would not
be exposed in like manner, as they are
formed in sacs entirely separate. In the
eruption of the double teeth the just
degree of irritability appears to be owing
to one point of the tooth projecting above
the others, and piercing the gum, leaving
the other points under the remaining por-
tion of the gum, which becomes so ex-
quisitely sensible, that the child refuses

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to have it touched. The utility of the operation, in this case, must be obvious, as it should be performed in such a manner as entirely to liberate the tooth. In either case, the pain which is another objective - the application of the caustic to the gums, is not so extensive ^{as} has been supposed. The circumstance of children themselves, during dentition, asking to have their gums lanced, is a sufficient proof of this. The pain is of such short duration and the relief so instantaneous, every alarming symptom disappearing as soon as it is performed, that the child who a few moments before appeared to be in the very hands of death, now breathes consolation to the anxious and almost despairing parent. The high degree of inflammation of the gums, and the exquisite sensibility of the

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most imminent & distressing
of the teeth, producing most intoler-
able pain, as is so clearly evinced by the con-
stant cries of the child, and in almost
unceasalpe, that nature calls for the
operation in the kindest language or
if not attended to the animal passes
death soon put a period to existence --

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